WATER WITH QUALITY

Hygienic Water Treatment for Humidification Systems



Humidification and evaporative cooling

Soft water using ion exchange

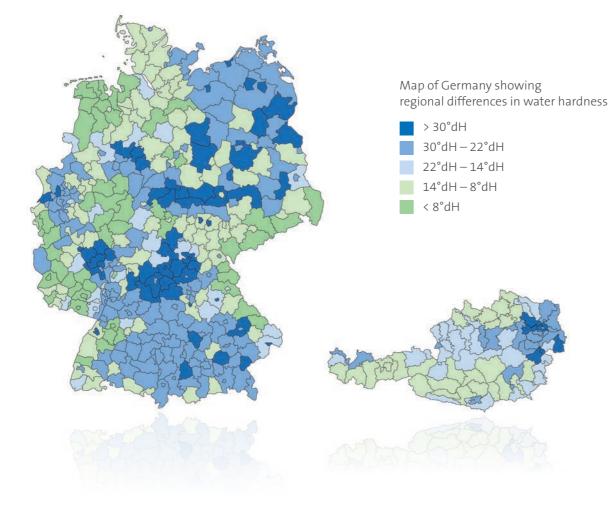
Water treatment with pendulum softeners

Condair Soft pendulum softeners produce soft water continuously and are used to supply reverse osmosis systems.

Mode of operation

Pendulum softeners work on the principle of ion exchange, so the hardness components calcium and magnesium are constantly removed from the water. Two softening

reservoirs provide the soft water supply alternately and without interruption. Thus, Condair Soft systems are especially suited to consumers who need a lasting soft water inflow. An electronic control head provides fully automatic operation and selfregeneration of the ion exchanger. Regenerating salt is stored in an adjoining brine tank.







Functional principle: Reverse osmosis

Reverse osmosis at the highest level

Advanced technology — reliable and powerful

Hygienically processed humidifying water is indispensable for adiabatic humidification. Germs and minerals contained in the water cause encrustations and can lead to health problems.

Condair reverse osmosis systems are designed specifically for the special requirements of hygienic humidification.

They are perfectly reliable, economical and hygienic, and therefore guarantee ideal humidifying water quality. The high-quality permeate is provided in an atmospherically sealed pressure reservoir made of stainless steel.

Contamination by corrosion and germ entry from the ambient air are therefore reliably excluded.

Hygienically clean water

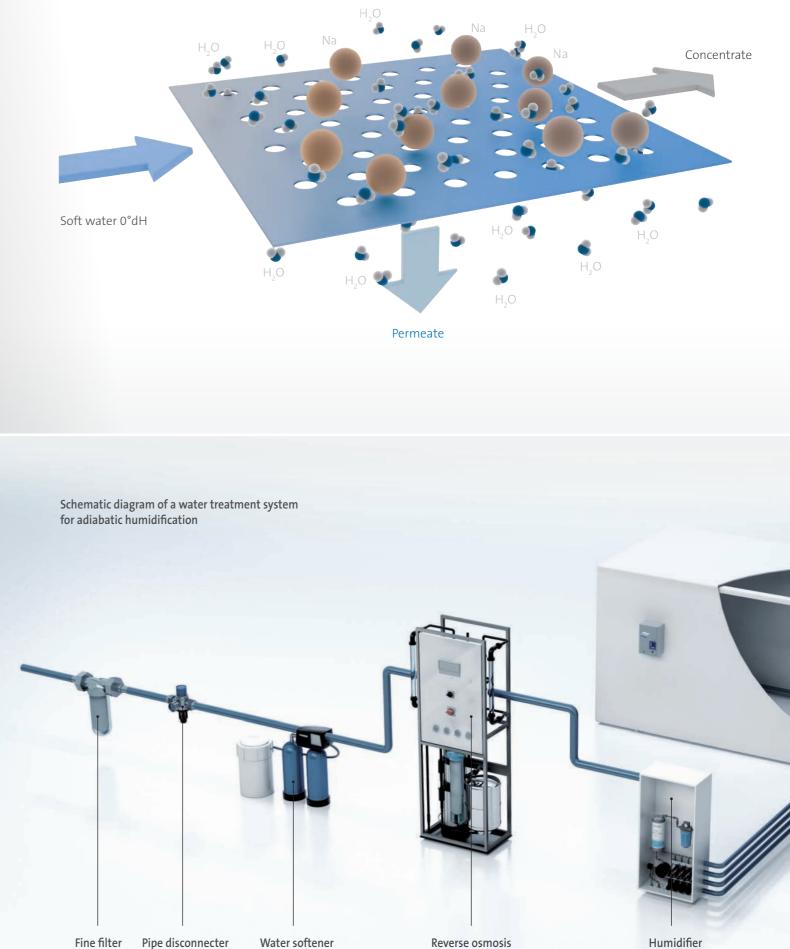
Reverse osmosis by Condair produces permeate of high hygienic quality. The combination of advanced technology and quality materials means that valuable humidifying water is provided in an ideal way.

Ground-breaking process

The innovation of osmosis technology has not only initiated new developments contamination — is not required. but also raised the standard of water treatment. Above all, this technical solution only applies in the case of Condair reverse osmosis.

Advanced technology and high-quality material

The quality of the permeate produced is reflected in the use of high-quality components. Advanced membrane modules guarantee the sustained release of the required permeate. The storage of a large volume of humidifying water — with risk of microbial



Reverse osmosis

Humidifier

Water treatment by Condair







Condair Soft 10

Small softening system

Pendulum softening system for the continuous production of soft water. Two exchanger containers that are directly integrated in the compact brine tank alternately provide an uninterrupted supply of soft water to downstream consumers. The regeneration is triggered automatically with a controlled volume of water. An electrical connection is not necessary.



Water softening

Pendulum softening system for regeneration cycles and the the continuous production of soft water. Two exchangers operate alter-

nately to ensure an uninterrupted supply of soft water to downstream consumers. Compact design with a central control valve mounted on exchanger tanks, which controls the soft water production,

switchover between the resin tanks. An adjacent brine tank for storing and regenerating salt reserves.

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Condair AX 02

Compact reverse osmosis system

Compact reverse osmosis system for producing demineralized water. The reverse osmosis system is intended for direct connection to the drinking water supply or an upstream Condair Soft softening system. Suitable for supplying RS and EL steam/air humidifiers and the RAV high-speed steam generator.

Condair AX 05

Compact reverse osmosis system

Compact reverse osmosis system for producing demineralized water. The reverse osmosis system is intended for direct connection to the drinking water supply or an upstream Condair Soft softening system. Suitable for supplying RS, EL and GS steam/air humidifiers, as well as the RAV highspeed steam generator and Condair ME evaporative cooler.

Tech	nical	data

Sof	tening capacity:	9.5 m ³ x°dH
Ор	erating temperature:	5–50°C
No	minal output:	0.4 m³h
Din	nensions:	
Wia Hei Der	ght	522 mm 470 mm 520 mm

echnical data						
Nodel	60	120	200	230	400	
oftening capacity:	60	120	200	320	400 r	m³x°dH
Iominal output:	0.68	1.35	2.25	3.60	4.50	m³h
Dimensions (with salt container):						
Vidth approx. Ieight approx. Depth approx.	1,096	1,125	600 1,577 840	1,577	1,862	mm mm mm

Technical data		Technical data
Permeate output:	20 l/h	Permeate output:
Water inlet pressure:	2–5 bar	Water inlet pressure:
Power consumption:	0.15 kW	Power consumption:
Dimensions:		Dimensions:
Width Height Depth	620 mm 420 mm 330 mm	Width Height Depth



Condair AX 12, 20

Compact reverse osmosis system

Compact reverse osmosis system for producing demineralized water. The reverse osmosis system is intended for direct connection to the drinking water supply or an upstream Condair Soft softening system. Suitable for supplying RS, EL and GS steam/air humidifiers, as well as the RAV highspeed steam generator and Condair ME evaporative cooler.

50 l/h
2–5 bar
0.55 kW
1 400 mm

1.400 mm 670 mm 430 mm

Technical data

Permeate output:	120, 200 l/h
Water inlet pressure:	2–5 bar
Power consumption:	0.55 kW
Dimensions:	
Width Height Depth	1,400 mm 670 mm 430 mm









Condair AX 30

Compact reverse osmosis system

Compact reverse osmosis system for producing demineralized water. The reverse osmosis system is intended for direct connection to the drinking water supply or an upstream Condair Soft softening system. Suitable for supplying RS, EL and GS steam/air humidifiers, as well as the RAV highspeed steam generator and Condair ME evaporative cooler.

Condair AX 50

Compact reverse osmosis system

Compact reverse osmosis system for producing demineralized water. The reverse osmosis system is intended for direct connection to the drinking water supply or an upstream Condair Soft softening system. Suitable for supplying RS, EL and GS steam/air humidifiers, as well as the RAV highspeed steam generator and Condair ME evaporative cooler.

Technical data

300 l/h
2–4 bar
0.55 kW
1,400 mm 670 mm 430 mm

Technical data	
Permeate output:	500 l/h
Water inlet pressure:	2–4 bar
Power consumption:	0.55 kW
Dimensions:	
Width	1,400 mm
Height	670 mm
Depth	430 mm

Condair RC

Rainwater collection

The Condair RC is specially designed to microbiologically prepare rainwater in such a way that it can be used for adiabatic exhaust air cooling.

Variant: CONDAIR RC-U The microbiological treatment is carried out by means of a UV reactor.

Variant: CONDAIR RC-C Here, the continuous addition of chlorine dioxide ensures a sustainable microbial reduction of the supply water with a deposit effect.

Technical data

Model: RC-U1000/RC-C1000	
Provision:	1.0 m ³
Reservoir:	2.0 m ³
Model: RC-U2000/RC-C2000	
Provision:	2.0 m ³
Reservoir:	4.0 m³

Condair AT

Technical data

Dimensions:

Width

Height

Depth

Permeate output:

Water inlet pressure:

Power consumption:

Reverse osmosis system

Condair AT reverse osmosis systems were designed specifically for the special requirements of adiabatic humidification technology. They are perfectly reliable, economical and hygienic, and therefore guarantee ideal humidifying water quality. The high-quality permeate is provided in an atmospherically sealed pressure reservoir made of stainless steel.

Condair AT2 dynamic

Reverse osmosis system (for an RLT system)

The highest efficiency and lowest water use are based on the use of advanced technology and microprocessor controllers.

The frequency-controlled pump enables electrical energy to be optimally utilized over the entire output range. Rinsing times and quantities of rinse water can be further reduced. The water balance of the Condair AT2 surpasses conventional systems by far.

Technical data 60–1,500 l/h Permeate output: Water inlet pressure: 2–5 bar

0.6–4.0 kW

600 mm

600 mm

1,680 mm

Power consumption:
Dimensions:
Width
Height
Depth





Condair AT2 static

Reverse osmosis system (for several RLT systems)

The highest efficiency and lowest water use are based on the use of advanced technology and microprocessor controllers.

The frequency-controlled pump enables electrical energy to be optimally utilized over the entire output range. Rinsing times and quantities of rinse water can be further reduced. The water balance of the Condair AT2 surpasses conventional systems by far.

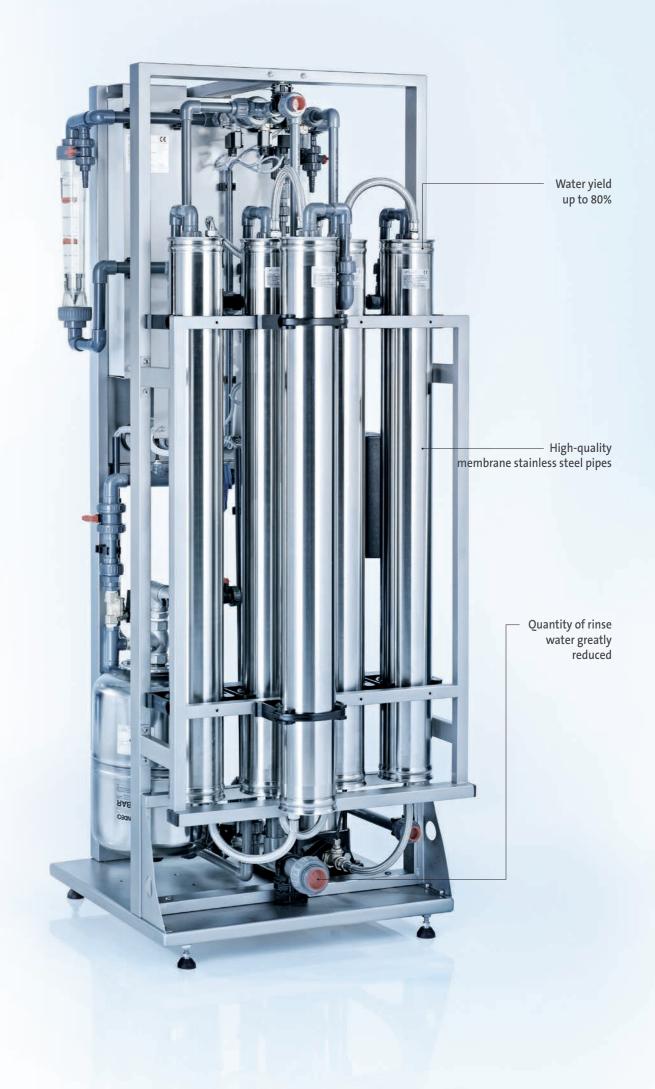
75–1,250 l/h
2–5 bar
0.6–1.5 kW

650 mm 1,800 mm 650 mm

Technical data

Permeate output:	75–1,250 l/h
Water inlet pressure:	2–5 bar
Power consumption:	0.6–1.5 kW
Dimensions:	
Width	650 mm
Height	1,800 mm
Depth	650 mm





CONDAIR AT2

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